

IN THE CLAIMS

Amend claims 1, 9 and 34, and add new claims 37 and 38 as follows.

1. (Presently Amended) A dry etching apparatus for treating a body comprising:

a chamber;

a holder in said chamber to receive a body to be treated;

means for introducing gas into said chamber;

means for exhausting said gas in said chamber;

a power supply of Ultra High Frequency;

an electromagnetic wave radiation antenna coupled to said power supply and installed in an atmosphere; and

a separation plate used as dielectric between said antenna and the inside of said chamber, wherein

said antenna is a plate microstripplate-antenna including comprising a discoidal electrode to which Ultra High Frequency is applied, an earth electrode and a dielectric plate provided between the discoidal electrode and the earth electrode.

2. (Previously Amended) A dry etching apparatus according to claim 1, wherein said separation plate is quartz disk.

3. Cancelled.

4. (Original) A dry etching apparatus according to claim 1,

wherein said means for introducing the gas has a shower plate, and

a distance between said shower plate and said holder is less than 100mm.

5. Cancelled.

6. (Original) A dry etching apparatus according to claim 1,

wherein said power supplies Ultra High Frequency of a frequency not less than 300MHz and not more than 1GHz.

7. Cancelled.

8. (Previously Amended) A dry etching apparatus according to claim 1,

wherein said separation plate separates said chamber and a second area where the pressure is higher than the pressure in the chamber,

said antenna is a microstrip antenna formed in said second area;

a coil outside of said chamber; and  
wherein the plate antenna resonates TMO1 mode.

9. (Presently Amended) A dry etching apparatus according to claim 37±,

wherein said separation plate separates said chamber and a second area where the pressure is higher than the pressure in said chamber,

said antenna is a microstrip antenna formed in said second area;

a coil outside of said chamber; and  
wherein a power supply provides Ultra High Frequency power to said plate antenna in a form of a cone.

10-33. Cancelled.

34. (Previously Added) A dry etching apparatus for treating a semiconductor wafer comprising:

a chamber;

a holder in said chamber to receive a semiconductor wafer;

means for exhausting said gas in said chamber;

means for introducing gas into said chamber;  
a power supply of Ultra High Frequency;  
a plate antenna for radiating an electromagnetic wave, coupled to said power supply and installed in an atmosphere, said microstrip antenna comprising a discoidal electrode; and  
a separation plate used as a dielectric between said antenna and the inside of said chamber;  
wherein said plate antennae is including a discoidal electrode to which Ultra High Frequency is applied, an earth electrode and a dielectric plate provided between the discoidal electrode and the earth electrode.

35. (Previously Added) A dry etching apparatus according to claim 34, wherein said separation plate is a quartz disk.

36. (Previously Added) A dry etching apparatus according to claim 34, wherein said power supply supplies power of an Ultra High Frequency band having a frequency not less than 300MHz and not more than 1GHz.

37. (New) A dry etching apparatus according to claim 1, further comprising:

a conical-shaped feed division to provide Ultra High Frequency power to said plate antenna, wherein

said conical-shaped feed division is placed on the discoidal electrode, and

said feed division is placed in the atmosphere.

38. (New) A dry etching apparatus according to claim 34, further comprising:

a conical-shaped feed division to provide Ultra High Frequency power to said plate antenna, wherein

said conical-shaped feed division is placed on the discoidal electrode, and

said feed division is placed in the atmosphere.